

**Department of Civil & Environmental Engineering
University of Connecticut, Storrs, CT**

**Structures and Applied Mechanics Technical Group
(STAM – TG)**

(February 07, 2010)

List of courses for graduate programs in the Structures and Applied Mechanics Technical Group:

**(A) Focus Area: Applied Mechanics
(Graduate School Area of Concentration: Applied Mechanics)**

Core Courses --- (must take all three)

CE 5122 (CE 322) - Advanced Mechanics of Materials
CE 5150 (CE 359) -Structural Vibrations
CE 5164/ME 5520 (CE 366/ME 380) –Finite Element Methods in Applied Mechanics I

Elective Core courses (Courses from other related Focus Area or Area of Concentration in the CEE Department) --- (must take at least one)

CE 5128 (CE 326) -Elastic Stability
CE 5380 (CE 352) -Bridge Structures
CE 5610 (CE 355) - Advanced Reinforced Concrete Structures
CE 5620 (CE 353) -Advanced Steel Structures
CE 5640 (CE 354) - Prestressed Concrete Structures

Suggested List to fill remaining course requirement

CE 5128 (CE 326) -Elastic Stability (*if not taken under Elective Core course above*)
CE 5151-- Experimental Structural Dynamics
CE 5163 -- Fracture Mechanics
CE 5166/ME 5521 (CE 367/ME 381) –Finite Element Methods in Applied Mechanics II
CE 5541 (CE 341) -Advanced Soil Mechanics
CE 5543 (CE 343) – Advanced Foundation Design
CE 5380 (CE 352) -Bridge Structures (*if not taken under Elective Core course above*)
CE 5610 (CE 355) - Advanced Reinforced Concrete Structures (*if not taken under Elective Core course above*)
CE 5620 (CE 353) -Advanced Steel Structures (*if not taken under Elective Core course above*)
CE 5640 (CE 354) - Prestressed Concrete Structures (*if not taken under Elective Core course above*)
ME 5105 (ME 305) – Basic Concept of Continuum Mechanics
ME 5507 (ME 307) – Engineering Analysis I
ME 6508 (ME 308) – Engineering Analysis II
and other courses in related areas as determined appropriate for the student's thesis/dissertation research or other educational goals

(B) Focus Area: Structural Engineering
(Graduate School Area of Concentration: Structural Engineering)

Core Courses ----(*must take all three*)

CE 5122 (CE 322) - Advanced Mechanics of Materials
CE 5164/ME 5520 (CE 366/ME 380) –Finite Element Methods in Applied Mechanics I
CE 5610 (CE 355) - Advanced Reinforced Concrete Structures
or CE 5620 (CE 353) -Advanced Steel Structures

Elective Core courses (*Courses from other related Focus Area or Area of Concentration in the CEE Department*) --- (*must take at least one*)

CE 5150 (CE 359) -Structural Vibrations
CE 5151-- Experimental Structural Dynamics
CE 5163 -- Fracture Mechanics
CE 5166/ME 5521 (CE 367/ME 381) –Finite Element Methods in Applied Mechanics II

Suggested List to fill remaining course requirement

CE 5128 (CE 326) -Elastic Stability
CE 5150 (CE 359) -Structural Vibrations (*if not taken under Elective Core course above*)
CE 5151-- Experimental Structural Dynamics (*if not taken under Elective Core course above*)
CE 5163 -- Fracture Mechanics (*if not taken under Elective Core course above*)
CE 5166/ME 5521 (CE 367/ME 381) –Finite Element Methods in Applied Mechanics II
(*if not taken under Elective Core course above*)
CE 5541 (CE 341) -Advanced Soil Mechanics
CE 5543 (CE 343) – Advanced Foundation Design
CE 5380 (CE 352) -Bridge Structures (*if not taken under Elective Core course above*)
CE 5610 (CE 355) - Advanced Reinforced Concrete Structures (*if not taken under Core course above*)
CE 5620 (CE 353) -Advanced Steel Structures (*if not taken under Core course above*)
CE 5640 (CE 354) - Prestressed Concrete Structures

ME 5105 (ME 305) – Basic Concept of Continuum Mechanics
ME 5507 (ME 307) – Engineering Analysis I
ME 6508 (ME 308) – Engineering Analysis II
and other courses in related areas as determined appropriate for the student's thesis/dissertation research or other educational goals